

Title (en)

MODULATION OF CALCIUM ION HOMEOSTASIS IN HARVESTED TRANSPLANTABLE HEARTS

Title (de)

MODULATION VON IN TRANSPLANTIERBAREN HERZEN GESAMMELTE CALCIUMIONENHOMÖOSTASE

Title (fr)

MODULATION D'HOMÉOSTASE D'IONS DE CALCIUM DANS DES COEURS TRANSPLANTABLES RÉCOLTÉS

Publication

**EP 3128836 B1 20200909 (EN)**

Application

**EP 15775970 A 20150410**

Priority

- US 201461978132 P 20140410
- CA 2015050297 W 20150410

Abstract (en)

[origin: WO2015154193A1] An oxygenated cardioplegic composition for immediate reperfusion of a donor heart after its procurement. The composition comprises an adenosine- lidocaine mixture for causing immediate cessation of the heart's systolic function upon contact; a normokalemic concentration of potassium ions; a concentration of Ca<sup>2+</sup> ions selected to maintain the intracellular level of Ca<sup>2+</sup> ions in the harvested heart muscle cells at about 10<sup>-4</sup> mmol/L; and a pH of 6.9. The oxygenated cardioplegic composition is pre-warmed to about 35° C and then used for immediate reperfusion of a donor heart for at least three minutes after its procurement.

IPC 8 full level

**A01N 1/02** (2006.01)

CPC (source: EP US)

**A01N 1/0226** (2013.01 - EP US)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**WO 2015154193 A1 20151015**; AU 2015245903 A1 20161117; BR 112016023394 A2 20170815; BR 112016023394 B1 20210921; CA 2943797 A1 20151015; CN 107734967 A 20180223; CN 107734967 B 20210716; EP 3128836 A1 20170215; EP 3128836 A4 20171122; EP 3128836 B1 20200909; ES 2834388 T3 20210617; US 10327441 B2 20190625; US 2017020127 A1 20170126

DOCDB simple family (application)

**CA 2015050297 W 20150410**; AU 2015245903 A 20150410; BR 112016023394 A 20150410; CA 2943797 A 20150410; CN 201580030243 A 20150410; EP 15775970 A 20150410; ES 15775970 T 20150410; US 201515302593 A 20150410